ACC NR: AT7001357

ideal inductor are discussed. The forces acting on a conducting cylinder in the field of a real inductor and on a conducting sphere in the field of a cylindrical inductor are also briefly evaluated. Orig. art. has: 13 figures and 34 formulas.

SUB CODE: 20, 09/ SUBM DATE: 22Jul66/ ORIG REF: 021/ OTH REF: 001

Card 2/2

KRUMIN, Zh.K., ingh.; LOGAHOV, V.M., ingh.

Automatic control devices used in the manufacture of seving needles. Trudy WMINMASH no.1:163-176 '59. (MIRA 13:5)

(Pins and needles) (Automatic control)

3002

9,7100

S/105/62/000/007/002/004 E200/E135

AUTHORS:

Gorushkin, V.I., Doctor of Technical Sciences;

Krumina, A.A., Engineer; and Latysheva, T.S., Engineer

TITLE:

On extending the range of problems solvable by means

of small digital computers

PERIODICAL: Elektrichestvo, no.7, 1962, 28-29

TEXT: The difficulties connected with the strict limitation of the range of numbers in small computers may be avoided to a great extent by resorting to operations over numbers represented in "normal form". Any number in normal form is represented as

 $x = q_x 2^{p_x} \tag{1}$

where $1/2 \leqslant q_x \leqslant 1$; q_x is the mantissa, p_x is the order of magnitude. The number represented in such form is recorded in two adjacent memory storage cells of the computer: in one cell one records the mantissa q_x and the other $p_x \cdot 2^{-30}$.

Card (1/4)

32028

On extending the range of problems... S/105/62/000/007/002/004 E200/E135

All arithmetic operations may be carried out over numbers represented in normal form. However, in most machines there are no commands for such operations. The arithmetic operations with such numbers are carried out by means of special programs. The rules for carrying out arithmetic operations over numbers represented in normal form are given below. Addition is carried out as follows: say the numbers $A = q_A \cdot 2^{PA} \quad \text{and} \quad B = q_B \cdot 2^{PB}$

are to be added. First one equates the orders and the difference $p_A - p_B$ is found. Then if $p_A - p_B < 0$, then q_A is multiplied by $2^{(p_A - p_B)}$ and added to q_B :

$$C = A + B = q_{A} 2^{PA} + q_{B} 2^{PB} = (q_{A} 2^{PA} - p_{B}) 2^{PA} - (p_{A} - p_{B}) + q_{B} 2^{PB} = (q_{A} 2^{PA} - p_{B}) + q_{B} 2^{PB} = q_{C} 2^{PC}.$$
(2)

Card 2/4

3002P 5/105/62/000/007/002/004 E200/E135

On extending the range of problems...

If $p_A - p_B > 0$ then q_B is multiplied by $2^{PB} - PA$ and is added to q :

$$C = A + B = q_{A} 2^{P_{A}} + q_{B} 2^{P_{B}} = q_{A} 2^{P_{A}} + q_{B} 2^{P_{B}} = q_{A} 2^{P_{A}} + (q_{B} 2^{P_{B}} - p_{A}) 2^{P_{A}} = (q_{A} + q_{B} 2^{P_{B}} - p_{A}) 2^{P_{A}} = q_{C} 2^{P_{C}}.$$
(3)

For multiplication the mantissas are multiplied together and the orders are added:

are added:

$$A \cdot B = (q_A 2^{p_A})(q_B 2^{p_B}) = (q_A q_B) 2^{p_A + p_B}$$
. (4)

Division is carried out thus:
$$\frac{A}{B} = \frac{q_A 2^{PA}}{q_B 2^{PB}} = \frac{q_A}{q_B} 2^{P_A} - {}^{P_B} = {}^{Q_C} 2^{P_C}$$
(5)

Card 3/4

37328 5/105/62/000/007/002/004 E200/E135

On extending the range of problems...

Programs for multiplication and division are written directly in the base program. The program for addition and subtraction is used as an independent routine. The method described above makes it possible to use fixed point computers of type M-3 (M-3) to carry out operations over numbers lying between the limits of

2-2 and 2 or approximately between 10-300 000 000 and 10300 000 000 (the machines "Strela" and "Ural-2" operate with numbers in the range from 10-19 to 1019). Thus it is possible to "transform" a fixed point computer into a floating point one.

ASSOCIATION: Energeticheskiy institut im. Krzhizhanovskogo (Power Engineering Institute imeni Krzhizhanovskiy)

SUBMITTED: September 25, 1961

Card 4/4

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AFONSKAYA, R.I.; KRUMINA, M.K.

Biology of Ussurian tigers. Sbor. trud. Mosk. zoop. no.1:51-60 '56.
(Moscow--Tigers)

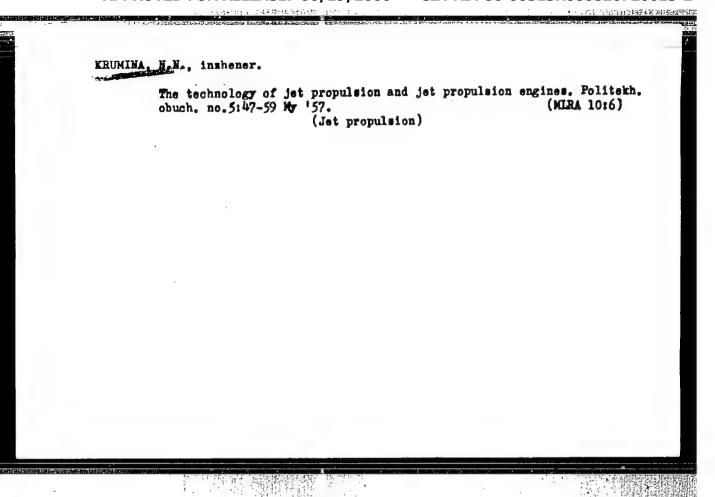
(MIRA 10:11)

AFONSKATA, R.I.; KRUMINA, M.K.

Observations on polar bears. Shor. st. Mosk, scop. no.2:56-63

'58.

(Bears)



"APPROVED FOR RELEASE: 06/19/2000

the rear, T. A.

CIA-RDP86-00513R000826720013-2



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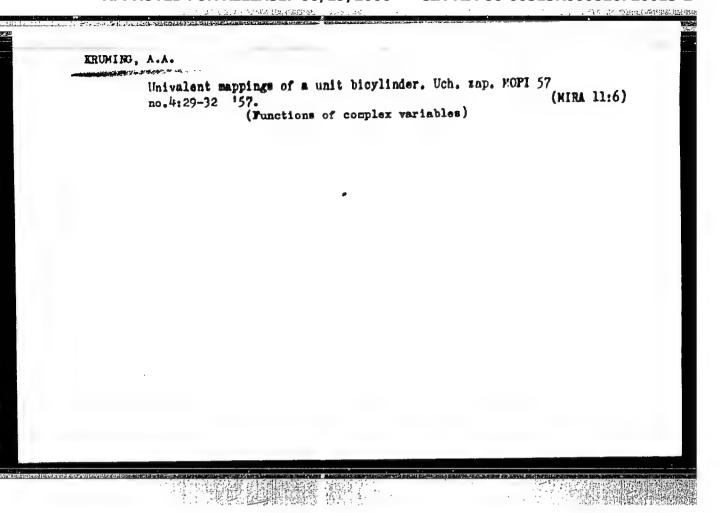
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Evaluating the interval of changes of a small parameter contained in the right sides of a system of differential equations having periodic solutions. Uch. zap. MOPI 39 no.3:61-66 *56.

(Differential equations) (MLRA 10:4)



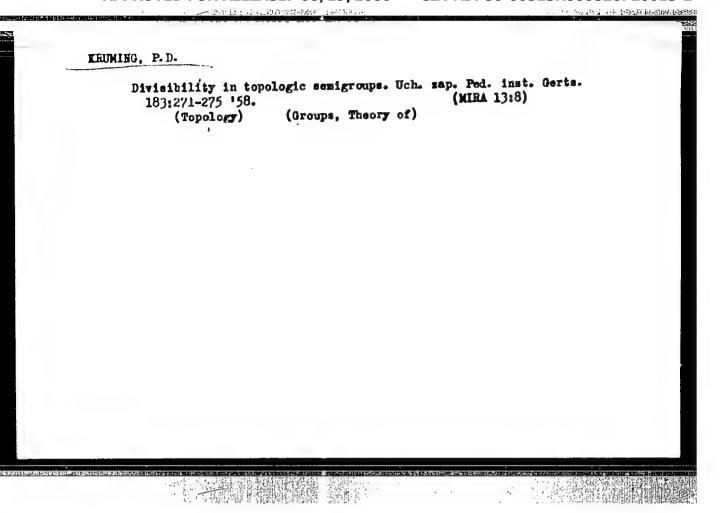
Analogue of the interior area theorem for the pseudoconformal mapping of a unit bicylinder. Uch. gap. MOPI 57 no.4:39-42 '57. (MIRA 11:6) (Functions, Analytic) (Conformal mapping)

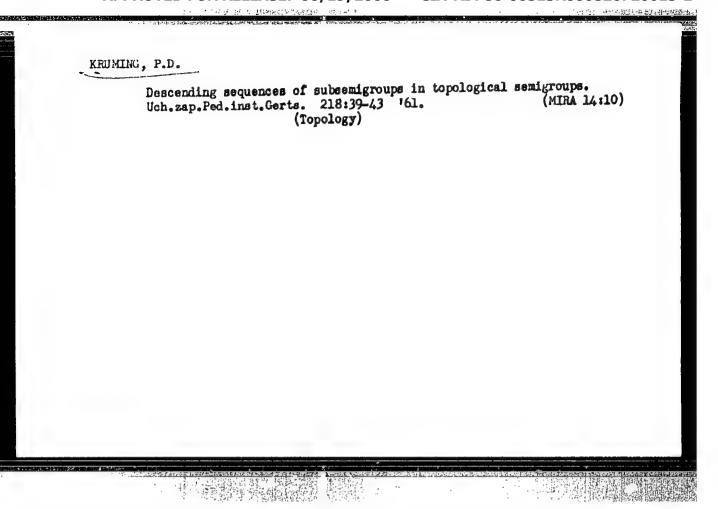
KRUMING, A.A.

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(MIRA 16:7)

(Functions of several variables)
(Weight functions)





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LIG: MAL197..5E7

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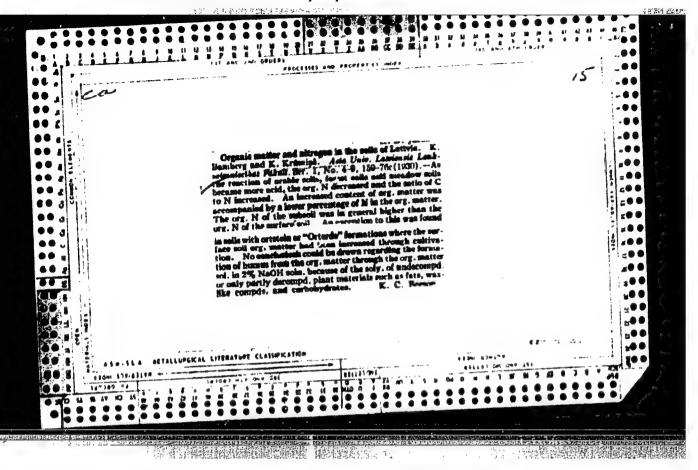
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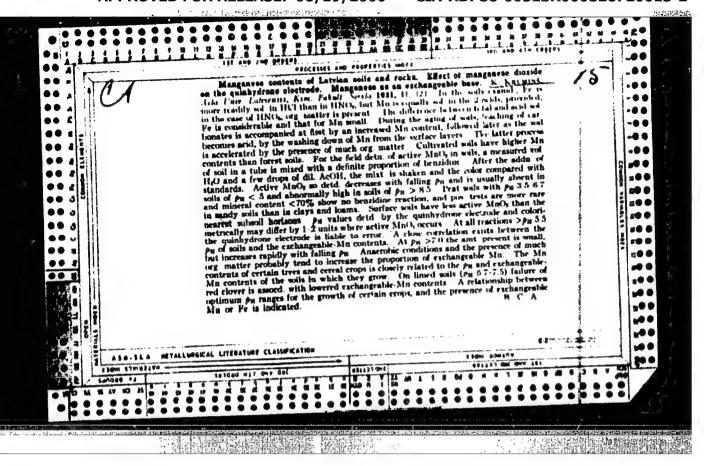
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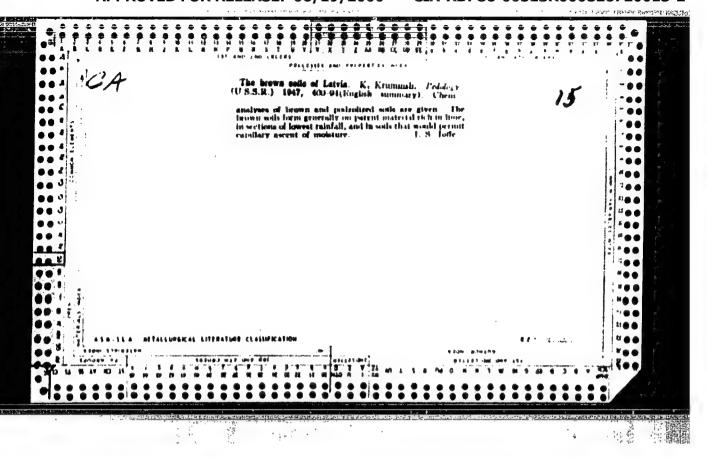
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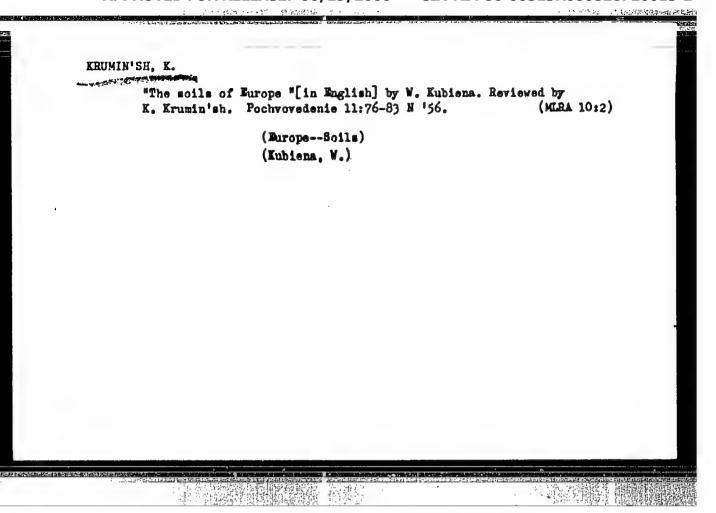
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KRUML, Cenek, inz.

A new type of folding boxes for materials and products up to 300 kg. Drevo 17 no.12:373-375 D *62.

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CZECHOSLOVAKTA / Chemical Technology, Chemical Products and Their H-13
Application. Ceramics. Glass. Binding Materials.
Concrete.

Abs Jour : Ref Zhur - Khimiya, No 5, 1959, No. 16309*

Author Kruml, F.

Inst : Not given
Title : Light Concretes with Artificial Fillers ("Keremzitobeton")

Orig Pub : Starvebn. casop., 1958, 6, No 3, 146-154

Abstract: Porosity, absorptive capacity (basis water) and other properties of several grades of "keramzite" of 390-830 kg/m³ density are reviewed. Light concretes incorporating "keramzites" as fillers, depending on their structure, are divided into two groups: porous (I) that contain <35 vol% of cement (C), and dense (II) with >40% C.

*Warked 16390

Card 1/2

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000826720013-2

CZECHOSLOVAKIA / Chemical Technology, Chemical Products and Their H-13
Application. Ceramics. Glass. Binding Materials.
Concrete.

Abs Jour : Ref Zhur - Khimiya, No 5, 1959, No. 16309*

Formulas for the calculation of I and II while employing various grades of "keramzite" fillers are proposed. Data pertaining to tensile strength, modulus of elasticity and other properties for the light concretes are given. — Ya. Satunovskiy

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Card 2/2

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CZECHOSLOVAKIA

TOMANEK, A; BOLECEK, O., MD; KRUML, J; ROUBKOVA, H; PREBOROVSKY, F., MD.

1. Research Institute of Tuberculosis (Vyzkumny ustav tuberkulose), Prague; 2. Tuberculosis Ward of the Hospital OUNZ (Tuberkulozni oddeleni nemocnice OUNZ), Liberec (for Bolecek); 3. Pathological-anatomical Ward UDL (Patologicko-anatomicke oddeleni nemocnice), Prague-Bulovec; 4. Pathological-anatomical Ward UDL (Patologicko-anatomicke oddeleni nemocnice), Prague; 5. Tuberculosis Ward UVN (Tuberkulozni oddeleni UVN), Prague (for Preborovsky)

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(PANCREAS) (STOMACH NEOPLASMS)
(DUODENAL NEOPLASMS) 'HIPOGLICEMIA)
(HEMATEMESIS) (LAPAROTOMY) (POLYPI)
(DIAGNOSIS, DIFFERENTIAL) (NEOPLASM DIAGNOSIS)

KEUML, J; PREROVSKY, I; TREFNY, Z; ZUFNICKOVA, J.

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1. Of the Bacteriological and Serological Department in Bulovce (Head--J. Viklicky) and of the Institute for Clinical Physiology of the Medical Faculty of Charles University, Work Group of V. Kurti (Head--Prof. J. Skladal, M. D.).

MIROVSKY, Jiri, MUDr: TUHOVA, Bela, RMDr: KRUML, Jiri, MUDr

Acute stenosing laryngotracheobronchitis in children. I. Clinical and pathologico-anatomical picture. Pediat. listy, Praha 9 no.6: 333-335 Dec 54.

1. Z I. a II. oddel. infekoni klin. v Prase, predn. prof. Dr.
Jaroslav Prochaska a doc. Dr. Vaclav Kredba. Z Ustavu epodemiol.
a mikrobiol.; reditel doc. Dr. Karel Raska. Z prosektury nemocnice
na Bulovce; predn. prim. Dr. Josef Viklicky
(LARYNGITIS

laryngotracheobronchitis stenosing in child., pathol.) (TRACHEA. diseases

laryngotracheobronchitis stenosing in child., pathol.) (BRONCHITIS

laryngotracheobronchitis, stenosing, in child., pathol.)

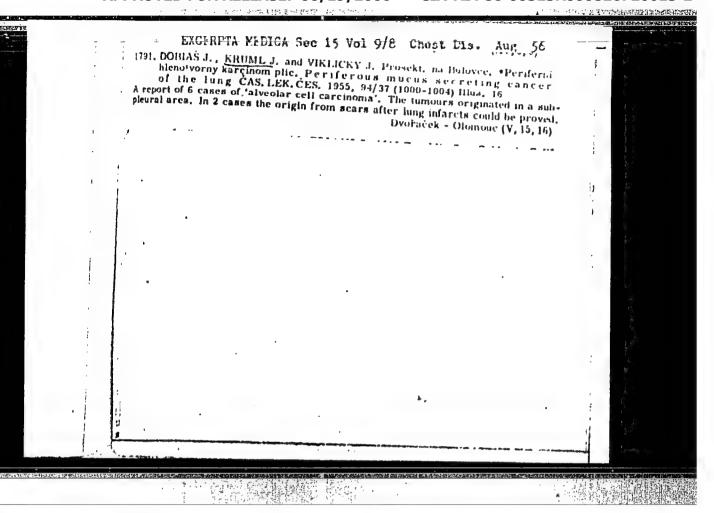
DOBIAS, J., Dr.; KRUML, I., Dr.; VIKLICKY, J., Dr.

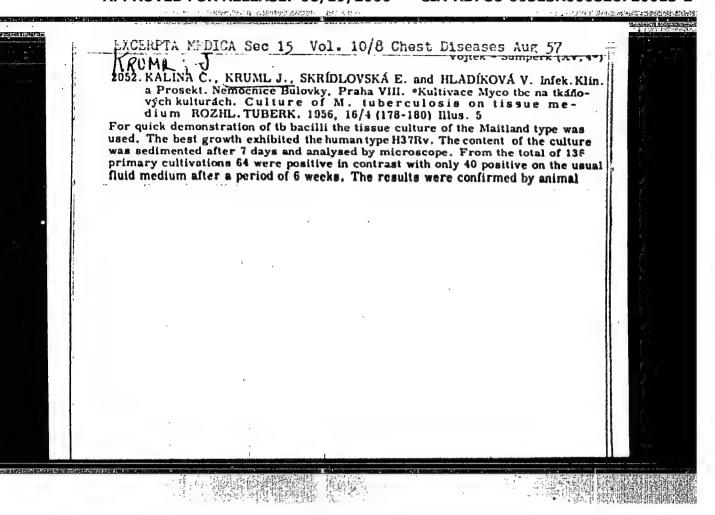
Peripheral phlegm forming carcinoma of the lungs. Cas. lek. cesk. 44 no.37:1000-1004 9 Sept 55.

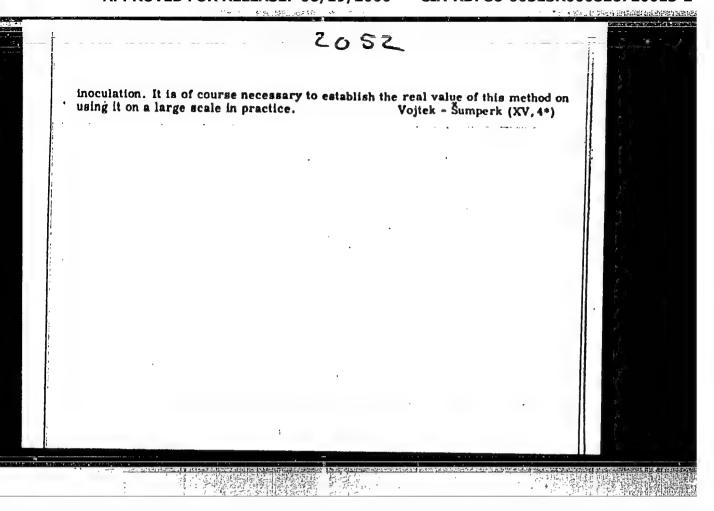
 Z prosektury na Bulovce, prednosta Dr. J. Viklicky. (LUNGS, neoplasms phlegm forming.)

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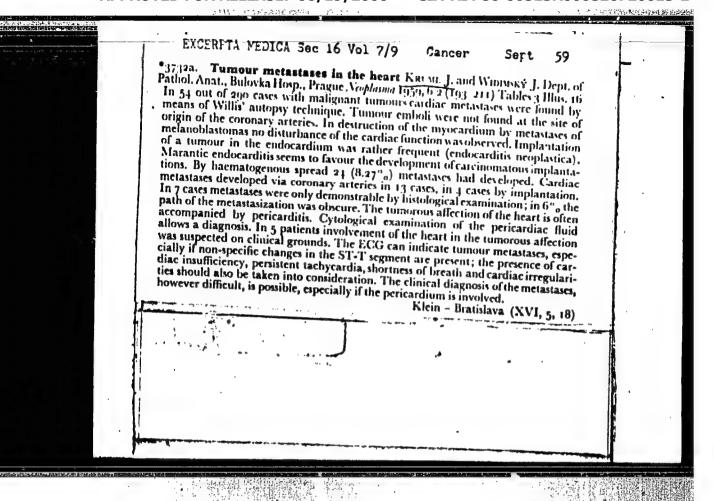
RIMAN, Josef; RYCHLIKOVA, Milena; VESKLY, Jiri; KRUML, Jiri

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1. Chemical Institute of the Czechoslovak Academy of Sciences, Department of Biochemistry, prague. Institute of Biology of the Czechoslovak Academy of Sciences, Prague City Hospital Bulovka, Department of Pathology, Prague, Authors, address: Dr. J. Riman and co-workers, Chemicky ustav CSAV, Praha 19, Na cvicisti 2.

(NEOPLASMS, exper.

transm. of Grocker's sarcown to G3H mice by isolated cell particles)



HRADEC, J.; KRUML, J.

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(CARCINOGENS) (EGG YOLK)

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DOBIAS, J.; DVCESKY, K.; KHDML, J.; MACEK, M.

Cerebrospinal form of paragonimiasis. Cesk. neur. 23 no.1/2:
48-52 Ja '60.

1. Pat. anat. odd. na Bulovce a UDL, Praha, predn. MUDr. J.
Viklicky; Pat. anat. odd. vseob. fakulty, Brno, predn. prof. MUDr.
J. Svejda; Bakteriolog. odd. na Bulovce, Praha, predn. doc. MUDr.
V. Wagner.

(DISTOMIASIS)
(CENTRAL NERVOUS SYSTEM dis.)
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MARATKA, Z.: MASEK, K.: BEDNAR, B.; KRUNL, J.

Comparison of results of gastric acidity and secretion tests with results of biopsy tests in the diagnosis of gastritis. Cesk. gastroent. vyz. 15 no.4:276-281 Je 161.

1. II vnitrni oddeleni, Ustredni laborator a Patologickanatomicko oddeleni nemocnice na Bulovce, I. patologickoanatomicky ustav KU v Preze.

(GASTRITIS diag) (BIOPSY) (GASTRIC JUICE)

KRUNIL, J

SUMMANA (In empo); Given Neues

Country:

Czechoslovakia

Academic Degrees:

Affiliation:

Praguo, Rozhledy v Tuberkuloma v Hemococh Plicnich,

Eourge :

Vol XXI, lio 7, August 1961, pp 521-529

"Calcified and Ossified Tuberculomas of the Brain."

Date:

Authors:

KRIVINA, Rudolf, Doc Dr. Institute for Postgraduate Medical Training (Ustav pro doskolovani lokaru), Prague; Department of Tuberculosis (katedra tuberkulozy), Chief (Prednosta): Doc Dr Rudolf Krivinka; Department of Pathological Anatory (katedra patologicke anatomic), Chief (Prednosta): Doc Dr Josef Viklicky; Department of Rentgenology (katedra rentgenologie), Chief (Prednosta): Dr Josef Slanina (katedra rentgenologie), Chief (Prednosta): Dr Josef Slanina

KRUEL, J. Degrees not given, Institute of Public Health (UHZ [Ustav narodniho zdravi]), HV hl m [abbreviation not identified], Prague, the Hespital in Bulovec, Heurological Department (neurologicke eddeleni), Chief (Prodnesta): Prof Dr Otakar Janota

With the co-operation of R Vojir and J Slanina

228

PREROVSKY, I.; LINHART, J.; DEJDAR, R.; SVEJCAR, J.; KHUML, J.; VAVREJN, B.

Research on the primary varicose veins and chronic venous insufficiency. Rev. csech. med. 8 no.3:171-178 162.

1. Institute for Cardiovascular Research, Prague-Krc; Director; Academician K. Wober.
(VARICOSE VEINS) (VASCULAR DISEASES) (VEINS)

SHAJDR, V. (Praha 8-Bulovka, VUTbe.); TOMANEK, A.; KEUML, J.; EGUBEOVA, H.;

On the problem of endobronchial chondrohamartomus. Cas. lek. Cesk. 105 no.2:42-46 14 Ja *66.

1. Vyzkumny ustav tuberkulozy, Praha (reditel doc. dr. R. Krivinka), Katedra patologicke anatomie Ustavu pro doskolovani lekaru, Praha (vedouci doc. dr. J. Viklicky) a Ustav pro choroby obehu krevniho, Praha (redital prof. dr. J. Brod, DrSc.). Submitted June 1965.

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CHARLETON ASSESSMENT VENEZUEZA --s .5A. IJP(c) JD/Hi cz/0012/66/000/001/0077/00843 EWP(t)/RTI L 38h16-66 SOURCE CODE: AP6019922 ACC NKI AUTHOR: Hermansky, Vojtech-- Grahmanski, V.; Kruml, Jiri ORG: Research Institute of Electrotechnical Ceramics, Hradec Kralove (Vyzkumny ustav electrotechnick keramiky) TITLE: Notes on thin nickel SOURCE: Silikaty, no. 1, 1966, 77-84 TOPIC TAGS: thin nickel layer, heat treatment, autocatalysis, reduction ABSTRACT: An investigation of nickel electrodes made by autocatalytic reduction from hypophosphite baths was undertaken with an electron microscope, a light microscope, and a high-temperature microscope. to the particular phosphorus content, these layers differ in structure and properties from pure nickel layers; heat treatment involves processes which limit the applicability of these layers in thin-layer elements and circuits. Above all, the processes include changes of structure and of the geometrical dimensions of the layers. On the basis of the investigations of heat-treated thin nickel layers made by autocatalytic reduc-1/2 Card

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ACC NR: AP6019922

tion from hypophosphite baths, it is possible to recommend 400C as the optimum temperature of heat treatment, reached by slow heating. The optimum temperature of minimum adverse phenomena occur. Orig. art. refers these conditions, minimum adverse phenomena occur. Orig. art. refers to and lists the captions of 10 figures, however reproduces only 3. [Based on authors' abstract.]

SUB CODE: 11/ SUEM DATE: 03Jul65/ ORIG REF: 007/ SOV REF: 001/ OTH REF: 004

KRUML, V.

Contribution to the discussion on the article "Automation of non-Rotating Power Sources for Welding in the Protective Atmosphere of Argon." p. 43

ZVARANIE, Bratislava, Czechoslovakia. Vol. 8, no. 2, Feb. 1959

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Concer of the colon in ulcerative colitis. (1st observation in the Czechoslovakian Socialist Soviet Republic) Cesk. gastroent. vyz. 15 no.8:612-614 D '62.

1. II. vnitrni oddeleni (doc. dr. Z. Maratka) a patologickanatomicke oddeleni (doc. dr. J. Viklicky) nemocnice na Bulovce, Praha 8. (COLON neoplasms) (COLITIS ULCERATIVE compl)

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KRUMM, L. A. -- "Methods of Calculating Stationary Operation of Electrical Systems with Primary and Secondary Automatic Frequency Regulation; and the Effect of Electrical Connections on Frequency Regulation." Min Higher Education USSR. Tomsk Order of Labor Red Banner Polytechnic Inst imeni S. M. Kirov. Tomsk, 1955. (Dissertation for the Degree of Candidate of Technical Sciences.)

SO: Knizhnava letopis!, No. 4, Moscow, 1956

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SOV/112-59-5-8819

Translation from: Referativnyy zhurnal. Elektrotekhnika, 1959, Nr 5, p 58 (USSR)

AUTHOR: Krumm, L. A.

TITLE: Improved Method of Successive Intervals for Determining Changes in the Steady-State Conditions of an Electrical System Responding to Any Symmetrical Perturbance; Allowance Is Made for Static Characteristics of Loads and Generators; Frequency, Voltage, and Power Are Automatically Controlled

PERIODICAL: Tr. Tallinsk. politekhn. in-ta, 1957, Vol A, Nr 125, p 19

ABSTRACT: Within any interval, a change in a parametric vector is considered as a continuous function of a perturbing factor; this results in simplification of calculations in some cases. The rate of change of the steady-state conditions with respect to any perturbing factor can be found in each interval, which permits determining permissible variations of perturbing factors, e.g., in the steady-state stability computations, etc. The overall error and the accumulation of errors are equal to those in the conventional method of successive intervals.

Card 1/1

A.A.K.

8(6)

SOV/112-59-1-567

Translation from: Referativnyy zhurnal: Elektrotekhnika, 1959, Nr 1, p 74 (USSR)

AUTHOR: Krumm, L. A.

TITLE: The Upp, Labor Consumption and of the Computation, Procusses of Methods for Calculating Steedy-State.

Conditions in Power Systems With . Allowance for Static Load and Generator Characteristics Under Conditions of Automatic Control of Frequency, Voltage, and Power

PERIODICAL: Tr. Tallinsk. politekhn. in-ta, 1957, A, Nr 126, p 27

ABSTRACT: Bibliographic entry.

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Two forms of more general equations for the economic factors involved in the operation of consolidated electric power systems. Isv.Sib.otd.AN SSSR no.10:29-36 '59. (MIRA 13:4)

1. Transportno-energeticheskiy institut $^{\rm S}{\rm ibirskogo}$ otdeleniya AN ${\rm JSSR}_{\rm o}$

(Blectric networks)

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Accuracy of a method for determining economical power system operation. Isv.Sib.otd.AN SSSR no.11:11-18 '59.

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(Electric power production)

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Gradient method for optimizing the operation of consolidated electric power systems. Elektrichestvo no.5:6-13 My 163.

(MIRA 16:7)

1. Sibirskiy energeticheskiy institut Sibirskogo otdeleniya AN SSSR.

(Electric power distribution)
(Interconnected electric utility systems)

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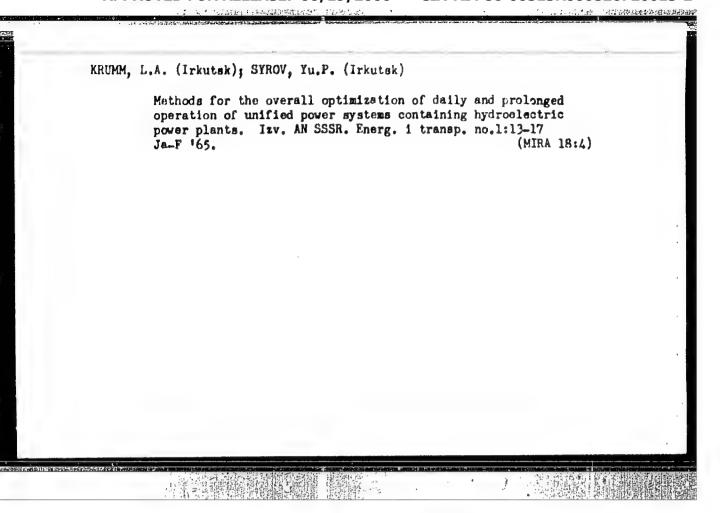
Use of the gradient method in optimalizing the operating modes of interconnected power systems containing hydroelectric power stations. Elektrichestvo no.4:20-26 Ap '64. (MIRA 17:4)

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[Methods for using electronic computers in the optimization of power engineering calculations] Metody primenenia elektronno-vychislitel'nykh mashin pri optimizatsii energeticheskikh raschetov. Moskva, Nauka, 1964. 318 p. (MIRA 17:11)

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Method for overall optimization of daily and long-term modes of operation of unified power systems with hydroelectric power stations. Part 2. 1zv. AN SSSR. Energ. 1 transp. no.2:32-42

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Gradient method for optimalizing the operation of unified electric power systems. Elektrichestvo no.6:88-89 Je *65. (MIRA 18:7)

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Generalization of a gradient method for optimalizing the conditions of power system consolidation. Izv. AN SSSR. Energ. 1 transp. no.3t3-16 My-Je 165. (MIRA 18:12)

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SOURCE CODE: UR/0281/65/000/001/0003/0017

AUTHOR: Crism,

Krumm, L. A. (Irkutsk); Syrov, Yu. P. (Irkutsk)

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ORG: none

TITIE: Nothods of complex optimization of daily and long term operation conditions of combined power systems including hydroelectric stations

SOURCE: AN SSSR. Izvestiva. Energetika i transport, no. 1, 1965, 3-17

TOPIC TAGS: hydroelectric power plant, dynamic programming

ABSTRACT: The article includes a brief survey of literature on methods of optimization of operating conditions for combined power systems containing hydroelectric stations. The necessity of further study in the area of complex optimization of the daily and long-term operating conditions of such systems is shown. The gradient method and the gradient method and the group relaxation method and the principle of dynamic programming are used as a basis in the analysis of methods of optimization of the daily operating regimes of such systems and their sections. Originate has: 6 formulas. [JPRS]

SUB CODE: 10 / SUBM DATE: 29Jul64 / ORIG REF: 022 / OTH REF: 005

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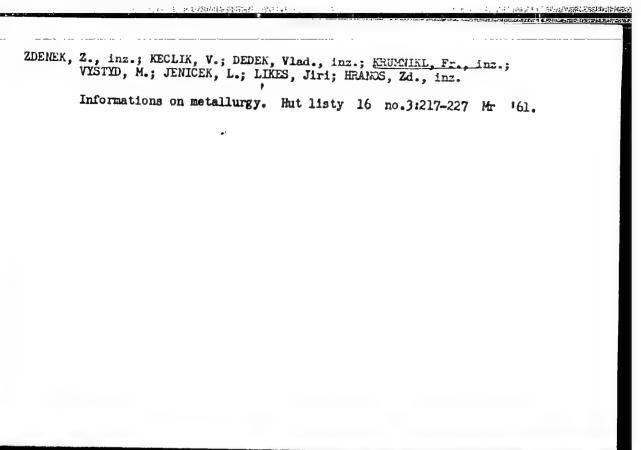
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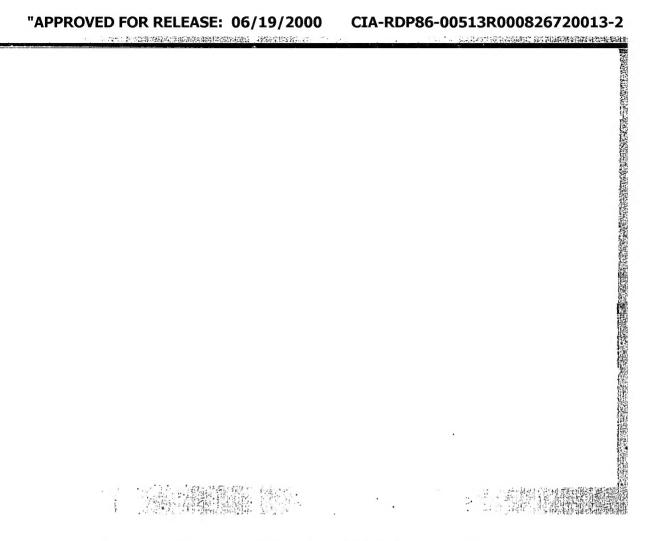
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